

July 2015

Pratt County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

A total of 15 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Pratt County economy.¹ These 15 sectors have a total direct output of approximately \$271 million and support 697.7 jobs in Pratt County. Running the model for all 15 sectors simultaneously produces the following results:

Agriculture Contribution in Pratt County

Impact Type ²	Employment	% of Total Employment	Total Value Added ³	% of Gross Regional Product ⁴	Output ⁵	% of Gross Regional Product
Direct Effect	697.7	10%	\$68,519,407	14%	\$271,040,746	56%
Indirect Effect	462.0	7%	\$32,767,229	7%	\$55,654,428	12%
Induced Effect	181.9	3%	\$12,567,331	3%	\$21,933,314	5%
Total Effect	1,341.6	19%	\$113,853,967	24%	\$348,628,488	72%

As shown in the above table, agriculture, food, and food processing supports 1,341.6 jobs, or 19% of the entire workforce in the county. These industries provide a total economic contribution of approximately \$349 million, roughly 72% of Gross Region Product (GRP). As noted below in the calculation of Gross Regional Product, imports and institutional sales are subtracted. Therefore, counties that import a relatively large amount of goods and services will have a reduced GRP which may lead to agricultural output being greater than GRP.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 15 agriculture, food, and food processing sectors is approximately \$114 million, or 24% of the GRP. This indicates that personal income, business income, and taxes generated by these sectors account for 24% of the total economy.

The following tables document the overall summary numbers of the model, top industries affected by employment and output, and a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:
https://implan.com/index.php?option=com_content&view=category&id=19

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value Added = Labor Income + Indirect Business Taxes + Other Property Type Income

⁴ GRP = Final Demand of Households + Governments Expenditures + Capital + Exports - Imports - Institutional Sales

⁵ Output = Intermediate Inputs + Value Added

In the top ten by employment, Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming is the top employer in the agriculture industry with 209.2 employees. This table also shows the amount of jobs that are created by the agriculture industry in Pratt County.

Top 10 Industries Affected by Employment

Sector Description:	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	209.2	\$75,297,991
Grain farming	208.4	\$101,354,842
Support activities for agriculture and forestry	175.7	\$6,796,042
Landscape and horticultural services	84.5	\$4,672,258
Wholesale trade.....	74.9	\$16,224,945
Real estate.....	59.8	\$9,309,593
Animal production, except cattle and poultry and eggs.....	41.3	\$5,809,398
All other crop farming.....	41.0	\$7,226,488
Farm machinery and equipment manufacturing.....	31.9	\$19,678,685
Truck transportation.....	31.5	\$4,722,362

The Grain farming industry directly contributes approximately \$101 million to Pratt County's economy. This table also shows how much revenue is generated in other industries by having a strong agriculture industry.

Top 10 Industries Affected by Output

Sector Description:	Total Employment	Total Output
Grain farming	208.4	\$101,354,842
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	209.2	\$75,297,991
Other animal food manufacturing.....	19.5	\$28,413,537
Oilseed farming	6.7	\$20,008,442
Farm machinery and equipment manufacturing.....	31.9	\$19,678,685
Wholesale trade.....	74.9	\$16,224,945
Real estate.....	59.8	\$9,309,593
All other crop farming.....	41.0	\$7,226,488
Support activities for agriculture and forestry	175.7	\$6,796,042
Animal production, except cattle and poultry and eggs.....	41.3	\$5,809,398

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture sector and the output they contributed to Pratt County's economy.

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All 105 counties in Kansas have IMPLAN models with an agriculture contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Kansas, the retail sector was omitted.